

THE BUILDER.

NOW READY, Price 10s.

HYDRAULIC AND TIDE TABLES,

TO AID THE CALCULATION OF WATER AND MILL POWER, WATER SUPPLY, DRAINAGE AND NAVIGABLE RIVERS. WITH SYNOPSIS OF RAIN-FALL IN GREAT BRITAIN; TOGETHER WITH THE PROPERTIES AND STRENGTH OF MATERIALS; USEFUL NUMBERS; POWERS, ROOTS; AND LOGARITHMS.

BY NATHANIEL BEARDMORE, MEMBER OF THE INSTITUTION OF CIVIL ENGINEERS.

The First Edition of this Work was received with much greater favour than the author had at all expected; and the sale was large, for so technical a work. To extend the use of this edition as a hand-book for the Engineer, in matters relating to Hydraulics and Hydrodynamics, many new Tables have been constructed, and Tide Tables are inserted at the close of the book, chiefly compiled from the data obtained in the Admiralty Tide Tables, and from the National Almanac. The supplementary remarks on the use of the Tables, have been amended, and more information interwoven, chiefly on our English rivers—the drainage areas of the more important of which have been especially computed from the Ordnance Map. In the original remarks on tides and rivers, experience and practice are the great guide; and, therefore, to obtain the best data for practical results, it has been carefully collected all the well-authenticated data within our reach or personal experience, and has then condensed into tabular form.—PREFACE to Second Edition.

WATERLOW and SONS, Parliament-street, Westminster; Birchall-lane; and London Wall, City; WEALE, 35, High Holborn; BLACK, Edinburgh; J. and J. THOMSON, Manchester; WEBB and HUNT, Liverpool; ARMENGAUD, Alais, Paris.

NEW SERIAL WORK BY MR CHARLES DICKENS.

On the 28th of February will be published, price 1s, the First Monthly Number of

BLEAK HOUSE.

BY CHARLES DICKENS.

WITH ILLUSTRATIONS BY HABLOT K. BROWNE.

To be completed in TWENTY MONTHLY NUMBERS, uniform with "DAVID COPPERFIELD," &c.

BRADBURY AND EVANS, 11, BOUVERIE-STREET.

This day is published, price 4d. each, or bound in cloth,

HOW TO SEE THE BRITISH MUSEUM.

In Four Vols. By WILLIAM BLANCHARD JENBOLD.

BRADBURY AND EVANS, 11, BOUVERIE-STREET.

FOR THE

KELLY'S PRACTICAL BUILDERS' PRICE BOOK.

or, Guide to the Valuation of all kinds of Builders' Work; with the Modern Practice of Measuring, and an Abstract of the New Building Act for regulating the Construction of Buildings. Revised, and corrected by New Calculations upon the Present Value of Materials and Labour. Arranged by an Architect of eminence, assisted by several experienced Measuring Surveyors. Illustrated and completed by Steel Engravings and numerous Woodcuts. Royal 8vo, price 6s, neatly bound. London: published by T. KELLY, Paternoster-row; SIMPKIN and MARSHALL; and may be had of all Booksellers.

Just published, price 1s. 6d. in cloth, of the 3rd edition, of **LAXTON'S BUILDERS' PRICES**, for 1862, containing upwards of 11,000 PRICES and Memoranda. The whole has undergone revision, in consequence of the large reduction in the price of Timber, Denia, and other Materials. It also contains the whole of the Building Act and Building Act. To be had of the Office of "The Builder," 35, High Holborn; SIMPKIN and CO., Paternoster-row, and all booksellers; or of the Author, at the Office of the "Civil Engineer and Architect's Journal," 18, Arundel-street, Strand.

REVUE GENERALE DE L'ARCHITECTURE et des TRAVAUX PUBLICS, a Journal for Architects, Engineers, Architectural Contractors, and Workers. This periodical, under the direction of M. CESAR DALL, Architect, and honorary member of various societies, is published every month, at 4 Rue de Furstemberg, Paris. The subscription is 12 francs for the year, or 31 francs the half year.

Just published, price 1s. 6d. bound in cloth, of **SHORT HINTS TO THE STUDENT IN ARCHITECTURE**, being a concise and familiar Guide to the Student from his first introduction to the study, through the preparation of finished, Competition, and Working Drawings, Specifications, &c. &c. With some useful Annotations on the Science of Architectural Measurement.

By H. B. ROBERTS. London: WHITTAKER and CO. Ave Maria-lane. Part II. 2s. 6d.; Part III. 2s. 6d. royal 8vo, with Illustrations. **ANCIENT GOTHIC CHURCHES: their Proportions and Chromatic.** By W. P. GRIFFITH, F.R.S.B., F.S.A.

Also, **THE NATURAL SYSTEM OF ARCHITECTURE**, as opposed to the artificial system of the present day. Royal 8vo, bound in cloth, gilt lettered, 10s. 6d.

Also, **SUGGESTIONS FOR DEVELOPING the TEMPLES OF GREECE**, bound in cloth, gilt lettered, 7s. The Publications of Mr. W. P. Griffith deserve the careful attention of all the members who desire to understand the influence of the temple proportions in Architecture. Report from the Council of the Liverpool Architectural Society, May, 1861. PUBLISHED BY THE AUTHOR, 9, St. John's-square, London.

N.B. Shortly will be published, with numerous Illustrations, the **THIRD PART OF ANCIENT GOTHIC CHURCHES: the Proportions and Chromatic.**

NEW AND ENLARGED EDITION OF SMEE'S ELECTRO-METALLURGY. Just published, in One Volume, just two, with Electro-types and numerous Engravings on Wood, price 10s. 6d. cloth.

ELEMENTS OF ELECTRO-METALLURGY. By ALFRED SMEE, F.R.S. Surgeon to the Bank of England. Third edition, corrected and considerably enlarged. Mr. Smee's Electro-Metallurgy is by far the best work that has been written, and for completeness of information it is superior to any on the subject.—Library notice. This is by far the best manual on the interesting subject to which it relates that we are acquainted with; and accordingly we recommend it to those who wish to obtain a correct and complete knowledge of the subject, or to those who intend to prosecute it for purposes of art or manufacture.—Daily News. London: LONGMAN, BROWN, GREEN, and LONGMAN.

Just published, in 12mo, with Diagrams, price 1s. 6d. cloth, **KEY TO TATE'S EXERCISES ON MECHANICS AND NATURAL PHILOSOPHY**, containing full solutions to all the unworked Examples and Problems.

By THOMAS TATE, F.R.S. of Knecht Training College, Trichinopoly.

"Mr. Tate's book gives in a practical and popular form, the substance of every mechanical principle, whether relating to statics or dynamics, which can ever become applicable to any combination of engineering operations; and in order that they may be fully understood, it supplies under each a number of illustrative examples, the solutions of which are given in the little book now before us. Practical mechanics will derive from it the greatest assistance, and the number of examples worked will serve to make the mechanical principles obvious."—Morning Advertiser.

By the same Author, **EXERCISES ON MECHANICS AND NATURAL PHILOSOPHY**, or, an Easy Introduction to Engineering. New Edition. 12mo, 1s. 6d. cloth, price 1s. 6d. London: LONGMAN, BROWN, GREEN, and LONGMAN.

MATHEMATICAL TABLES.

TABLES OF LOGARITHMS, COMMON and TRIGONOMETRICAL TO FIVE PLACES. Under the Superintendence of the Society for the Diffusion of Useful Knowledge. Foolscap 8vo, 3s. 6d.

BARLOW'S TABLES OF SQUARES, CUBES, SQUARE ROOTS, SQUARE ROOTS, AND RECIPROCAL, &c. 10s. 6d. New edition, revised and corrected. Under the Superintendence of the Society for the Diffusion of Useful Knowledge. Royal 8vo, 10s. 6d. London: TAYLOR, WALTON, and MABERY, 58, Upper Ground-street; and E. Fryland, Paternoster-row.

THE ART-JOURNAL.—Advertisements for the MARCH number should be addressed to Mr. CLARK, Art Journal Office, 4, Wellington-street North, not later than the 1st INSTANT.

In three Volumes, Imperial 8vo, cloth, 2s. 6d. Royal 8vo, India Proof, 6s. **WINKLES'S ENGLISH CATHEDRALS.**

Architectural and Picturesque Illustrations of the Cathedral Churches of England and Wales, 100 Plates, beautifully engraved. By R. WINKLES. With Historical and Descriptive Notices. "The Cathedral Church of Manchester which has just been added, forming the completion of the Work, may also be had separately, in plain 8vo, 6d. India proof, 3s. DAVID ROGEE, Fleet-street.

ARCHITECTURAL WORKS.

ANALYSIS OF GOTHIC ARCHITECTURE. Illustrated by a series of upwards of seven Hundred Examples of Doorways, Windows, &c. accompanied with Remarks on the several details of an Ecclesiastical Building. By R. and J. A. BARNES, Architects. 4 large folio royal 8vo, 10s. 6d.

THE OPEN TIMBER ROOFS OF THE MIDDLE AGES. Illustrated by Perspective and Working Drawings of some of the best Varieties of Church Roofs, with Descriptive Letterpress. By R. and J. A. BARNES. Royal 8vo, 10s. 6d.

PARISH CHURCHES; being Perspective Views of English Ecclesiastical Structures; accompanied by Plans drawn in a Uniform Style, and Letter-press Descriptions. By R. and J. A. BARNES. New Edition. 1 vol. imp. 8vo, 10s. 6d. "Barnes's Principles of Gothic Architecture will supply a great deal of useful information. I also strongly recommend Barnard's 'Parish Churches' and 'Analysis of Gothic Architecture'."—The Bishop of Exeter's Charge, 1861.

PRINCIPLES OF GOTHIC ECCLESIASTICAL ARCHITECTURE; with an Explanation of Technical Terms and a Catalogue of Ancient Terms. By HARRISON HARRISON HARRISON. Illustrated with 100 woodcuts. 4 vols. 8vo, 10s. 6d. The present Edition has been considerably enlarged. DAVID ROGEE, Fleet-street.

PRIZE MEDAL OF THE GREAT EXHIBITION 1851.—HENRY BAYNE, of 9, Clerkenwell-lane, City, has just published an Engraving of the above, price 1s. Sold by all booksellers and stationers.

FACTORY PREMISES.—WANTED, in a manufacturing locality at the outskirts of Town, a FACTORY, not less than 100 feet long by 30 feet wide, or a suitable Factory near a railway station within twenty miles of London.—Apply, please, particulars, to Mr. BULLOCH, Architect, 6, Waterloo-place, Pall-mall.

SAW-MILLS.—TO BE DISPOSED OF, on advantageous terms, in the neighbourhood of Westminster, superior SAW-MILLS and MACHINERY, now in full trade, having a first-rate connection; with spacious wharf, commanding situation, and every facility for out-fitting a large and profitable business.—Apply to Mr. R. D. WARRINGTON, New City Chambers, Bishopsgate, or Messrs. CHURCH and SON, Auctioneers and Surveyors, Woodcock-lane, February, 1862.

WANTED, a cheap second-hand Vertical SAW FRAME, for cutting deals, &c. with crank complete to be worked by a strap.—Apply by letter, post-paid, stating the size and abilities, with the very lowest price, W. A. Post-officer, Hildrop, Dorset.

BARGES.—Wanted, to Hire by the Year, to be paid for quarterly, TWO BARGES of about eighty tons burthen, capable of carrying 2,000 of bricks, and to go up the canal to the Thames.—Barges may be sent, free, addressed to P. P. D. care of Mr. Shadbolt, Bookeller, 180, High-street, Hammersmith.

TO LET WORKERS, PAINTERS, BUILDERS, &c. **TO BE DISPOSED OF, for a very small sum, a BUSINESS HOUSE and SHOP** in the above line, with immediate possession. Station, 3, Aldersgate-street, City.

TO SAW-MILL PROPRIETORS, COAL AND COAL **TO BE SOLD, a NEW SPRING VAN,** very strong, to carry five tons weight. Patent axle and springs. The owner will take the value out in either of the above trades.—Address, E. W. Office of "The Builder," 1, York-street, Cornhill.

TO ARCHITECTS. COMPETITION and other DRAWINGS.

—Mr. THOMAS R. BOW, Member of the New Society of Painters in Water Colours, and author of "The Pleasure of Architecture of Paris, Ghent, Rome, &c." and of "London as it is," offers his services to Architects and Landscapists of Property, in Vases, Interiors, &c. From the long experience he has had in such subjects, he is fully aware of the points essentially necessary to be attended to in Drawing, and is capable of executing in a superior manner.—Address, Mr. BOW, 18, Abchurch-lane, London.

DECORATIVE PAINTING.

—Mr. FREDERICK RAY, from the Royal Academy of Munich, DECORATIVE ARTIST in FRESH COLOURS, and in all other matters of Painting; whose works may be seen in the principal public buildings of the metropolis, begs to inform his patrons and Architects in particular, that he has considerably increased his Establishment, and is now enabled to undertake, on the shortest notice, the embellishment of private and public buildings, in any part of the United Kingdom, on the most reasonable terms, and in any of the Classical, Modern, or Modern Styles.—Apply to F. RAY, Decorative Artist, 26, Pall-mall, London.

TO ARCHITECTS. MR. FREDERICK BRETT RUSSEL.

Artist, Member of the Suffolk Fine Arts Association and Author of the "Pictorial Antiquities of Ipswich, &c." offers his services to architects in COLOURING COMPETITION and EXHIBITION DRAWINGS (whether exterior or interior), either in spirit or colour. Mr. Russell having been a pupil of an eminent architect, and since the expiration of his articles having devoted his attention exclusively to the representation of buildings in England and the Continent, feels himself peculiarly fitted to meet the requirements of the profession. The highest testimonials of ability and punctuality can be procured from architects by whom Mr. Russell has been professionally employed. Upper Hornsey-street, Ipswich, Feb. 11, 1862.

ARCHITECTURAL DESIGNS.

COLOURED FOR COMPETITION and EXHIBITION by GEORGE CHILDS, 18, Abchurch-lane, Paternoster-row, London.

TO INVENTORS, PATENTEES.

PATENT AGENTS, and OTHERS.—Drawings made, copied, or traced, with rapidity and accuracy, on Durable Materials, by the assistance of extensive experience, who has long remained in the profession.—Address, B. W. Commercial-road, London.

QUANTITIES, SPECIFICATIONS, SCHEDULES OF PRICES, WORKING DRAWINGS, &c.

PLANS, ELEVATIONS, DRAWINGS OF MACHINERY, &c. Lithographed or engraved. DRAWING PAPERS, and all other requisites, on-station, or otherwise, TRACING PAPER, and cloth, &c. Continuous and GENERAL STATIONERY, for the use of BUILDERS, ARCHITECTS, SURVEYORS, and ENGINEERS, at the lowest current rates. WATERLOW and SONS, 15, Abchurch-lane, London. (Contracts for the supply of large establishments.)

BILLS OF QUANTITIES.—DAY & SON.

Lithographers in the Queen.—Lithograph Mills of quality with the greatest despatch, and at a vast saving on the price generally charged. Perspectives got up from Geometrical Drawings, either in cut line or Water Colours. 17, FLEET-STREET, LINCOLN'S-INN-FIELDS.

MARTIN and HOOD, Architectural.

Mechanical Engineering, Map, and Plan Draughtsmen, and Mechanical Writers, Engravers, and General Lithographers, respectfully announce to Architects and the public, that they are prepared to undertake WORKS OF ANY NATURE, in the above branches, on the most reasonable terms. WORKING and TINTED DRAWINGS of every description of MACHINERY.

6, GREAT NEWPORT-STREET, LICHFIELD-SQUARE.

PAPER HANGINGS.—R. HORNE.

PAPER-HANGING MANUFACTURER, 41, Gracechurch-street, City, invites builders and the trade to inspect his extensive stock of NEW DESIGNS IN PAPER-HANGINGS, which, by the aid of powerful machinery, he is enabled to offer at the following prices, in stock quantities, for cash only, viz.

Most lining paper..... 6d. 1 Superior paper, in great variety..... 6d. and 7d. 2 Best room papers, in great variety..... 6d. and 7d. 3 An excellent oak paper..... 6d. and 7d. 4 Sitting-room dials, on blended grounds..... 7d. to 10s. 5 Hand made marbles..... 10s. to 12s. 6 Good satin papers..... 12s. to 14s. 7 Flock papers..... 14s. to 16s. 8 Hand made granites..... 16s. to 18s. 9

Every novelty in French and English painted decoration always on hand; also excellent imitation of fancy woods. N.B. Patterns sent into the country, by post, showing the style and quality of the above, on receipt of two stamps, and the goods supplied, with promptitude on receipt of a remittance to the amount of the order given.

PAPER HANGINGS, by E. T. ARCHER'S.

Patented Machine, Blocks, Cylinders, and Artistic Labour, at his Manufactory, for all kinds of papers adapted for interior decoration. FINEST PAINTED PAPER, and all the new designs, on the walls of the extensive Rhine Rooms, in every known city, and for all purposes, by artists of known merit.

Attached to the paper-hanging factory there is the chief assortment of CABINET FURNITURE in London, of the best make, and upholstery goods of the first fabric. Brussels carpet, 1s. 6d. per yard, floor cloths, the best that can be made, cut to size dimensions, 1s. 6d. per yard, and worsted curtains of the first fabric, 5s. 6d. wide, 1s. 6d. per yard, &c.

By E. T. ARCHER'S, 41, Oxford-street.

PAPER HANGINGS.—By recent improve-

ments in black and cylinder printing, gold stain and bed room papers are offered to the trade at very reduced prices, by JEFFREY, ALLEN, and CO., Kent and Essex-gate, 118, White-chapel.

TO ARCHITECTS, SURVEYORS, &c. THE MATHEMATICAL INSTRUMENTS.

By HONELL EAGER, which obtained a First Medal in the Great Exhibition for their accuracy and accuracy, can only be had of his agent, Mr. CHAR. LANE, 61, Newcourt-street, Clerkenwell. Specimens can also be seen at the Portland Gallery.